OPERATING INSTRUCTIONS

BALDWIN BOXALL
COMMUNICATIONS

VIGIL Eclipse2

Installation Instructions

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CE

This equipment has been designed and manufactured to conform to the following EC Standards:

EMC: EN55103-1 Environment Classification: E1,

EMC: EN55103-2 Environment Classification: E5,

Safety: EN60065

Failure to use the equipment in the manner described in the product literature will invalidate the conformity.

A “Declaration of Conformity” statement to the above standards and a list of auxiliary equipment used for compliance verification is available on request.

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AMENDMENT RECORD

Page Number(s) Affected	Change Note Number	Nature of Amendment	Date of Amendment
All	2053	Issue 1	Jan 2007

PROPRIETARY NOTICE

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SAFETY INFORMATION

Personnel who install, maintain or repair this equipment must read the safety information below before starting work.

Voltages in excess of 30 Volts RMS or 50 Volts DC are considered Hazardous and in certain circumstances can be lethal.

If Functional Testing, Maintenance, or Repair is to be completed with the Mains Power (and/or battery backup) connected then this should only be undertaken by personnel who are fully aware of the danger involved and who have taken adequate precautions and training.

This Manual contains Warnings, Cautions and Notes.

Warnings describe potential threats to health or life, e.g.

WARNING

Before attempting to remove this component, ensure the Mains Power Supply and Battery Backup have been disconnected.

Cautions describe potential threats to the equipment, e.g.

CAUTION

Notice must be taken of all cautions.
If a Caution is ignored the equipment may be damaged.

CAUTION: ELECTRO-STATIC SENSITIVE DEVICES

Observe the relevant precautions for the protection of Electro-static Sensitive Devices when handling this equipment.

Notes are statements that are useful to the user in the context of a particular section of the manual, e.g.

NOTE: Do not speak into the microphone until the "Speak Now" LED is illuminated.

COMMENTS

Comments regarding the content of this manual are welcome and should be addressed to mail@baldwinboxall.co.uk.

1 Introduction

1.1 VIGIL Eclipse2 Description

The VIGIL Eclipse2 is a purpose-built wall-mountable Voice Alarm or Public Address system. It boasts simple design that enables straightforward installation and commissioning.

The VIGIL Eclipse2 uses a VIGIL BVRD2M DSP Router along with VIGIL Amplifiers and BVSMP Power Supply to achieve up to either seven single or four dual circuit zones.

The unit can accept upto seven line inputs and can store upto six pre-recorded messages.

The VIGIL Eclipse2 can be either used as a stand alone system or it can be part of a decentralised network of upto 128 units.

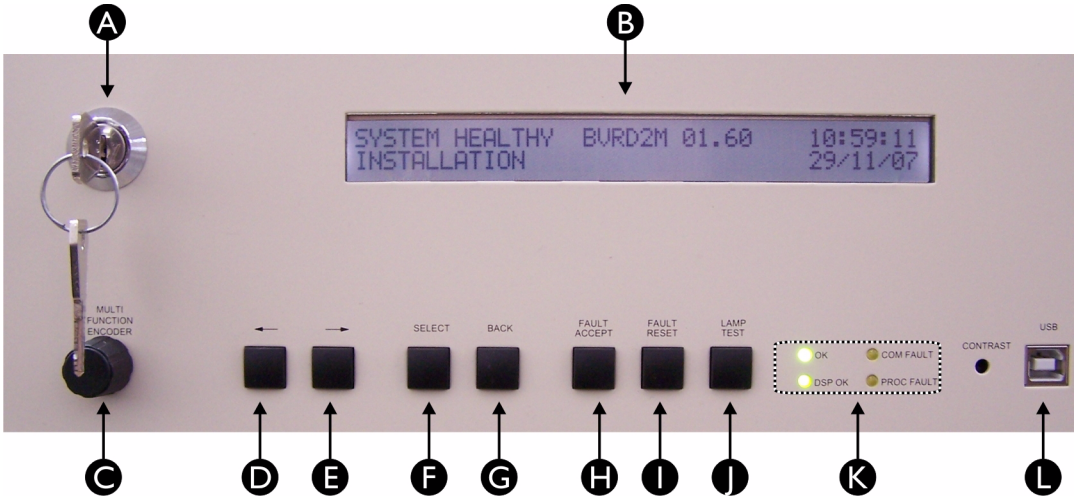
All site wiring connections are made to a single, easily accessible Termination Board mounted at the top of the unit.

The system is powered by a 230V AC 50-60Hz power supply with internal battery backup. The VIGIL Eclipse2 is supplied with the necessary number of BEL1 end of line monitoring units to provide full Loudspeaker monitoring.

The unit is fully configurable via a PC using the USB interface and the Configuration Software.

1.2 Front Panel Controls & Settings

Figure 1.1 — VIGIL Eclipse2 Front Panel

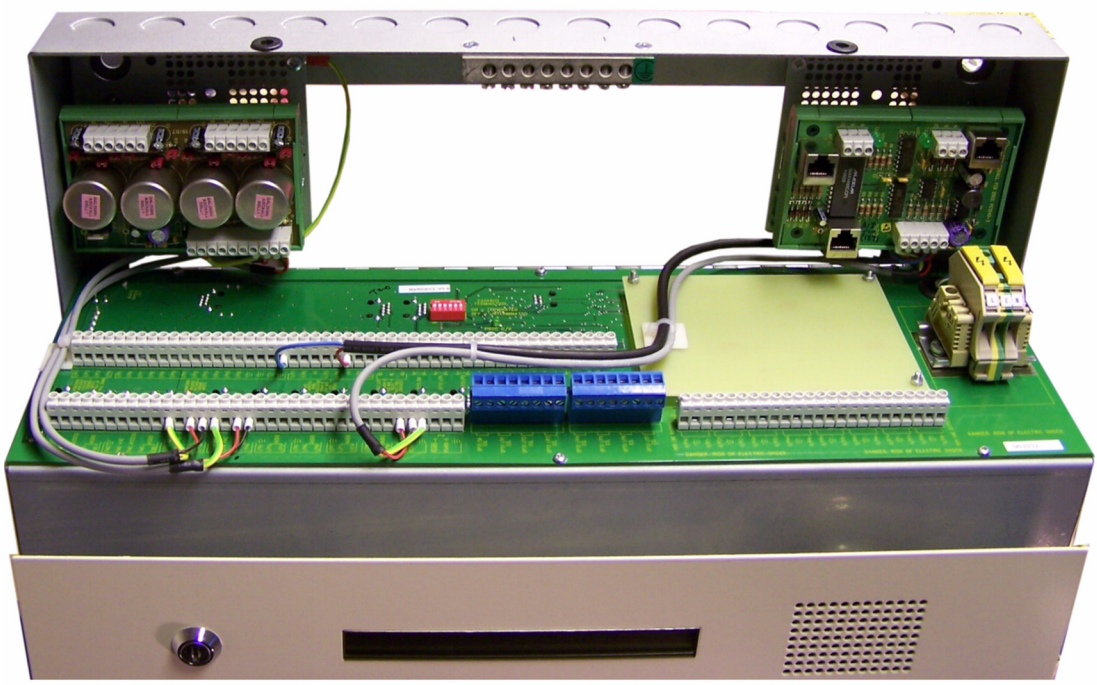


A	Access Control / System Configuration Key Switch	Unless Key is turned (and password entered), access to configuration options is not available to prevent unauthorised or accidental changes to system setup
B	40 x 2 Character LCD Display	Shows either the current system status, or, if in Configuration mode the options and menus available
C	Multi Function Encoder	Used for changing values and entering text when in Configuration Mode
D	Left "←" navigation button	Press to move left through available menus and options
E	Right "→" navigation button	Press to move right through available menus and options
F	"Select" navigation button	Press to choose the currently selected option
G	"Back" navigation button	Press to move back to the previous menu
H	"Fault Accept" button	Press to accept a fault and silence the buzzer
I	"Fault Reset" button	Press to reset a displayed fault (Note: only available if key switch is turned)
J	"Lamp Test" button	Press to check LEDs and sounder
K	Status LEDs	"OK" - No faults detected "Com Fault" - Fault detected, shown on LCD Display "Proc Fault" - Processor or Internal Comms fault detected. Potentially Fail Safe operation only available (hard wired All Call on Mic 1 & 2 and EM message will operate correctly). "DSP OK" - flashes to indicate DSP has no faults
L	USB port connection	Connection for Configuration Software

1.3 Termination Details

All terminations are made on a single PCB mounted at the top of the unit.

Figure 1.2 — Typical VIGIL Eclipse2 Termination PCB



To aid installation the Termination Board includes the relevant Audio and Control Inputs from the BVRD2M to make them more accessible.

The Termination Board is also a CANBUS expansion module that adds features in addition to those available on the BVRD2M.

The total number of control inputs available on the VIGIL Eclipse2 is as follows:

- 8 x Opto-coupled Control Inputs,
- 16 x Analogue Control Inputs,
- 3 x RS 485 ports,
- 8 x Amplifier / Loudspeaker line monitored outputs for upto 4 dual circuits (no reserve), 7 single circuits (no reserve), or 6 single zones if reserve amplifier auto-changeover is used.

2 Installation

WARNING

The VIGIL Eclipse2 can weigh upto 65Kg (including batteries). Ensure the mounting wall is strong enough to support the unit.

CAUTION

This unit must be installed in a well ventilated area, and cannot be floor mounted or positioned where any of the ventilation grills would be blocked or obscured.

CAUTION

There are 14 gland positions on the top edge of the unit for terminating site cabling.
Do not attempt to add cable glands through the base of the unit since they will prevent the installation of the batteries.

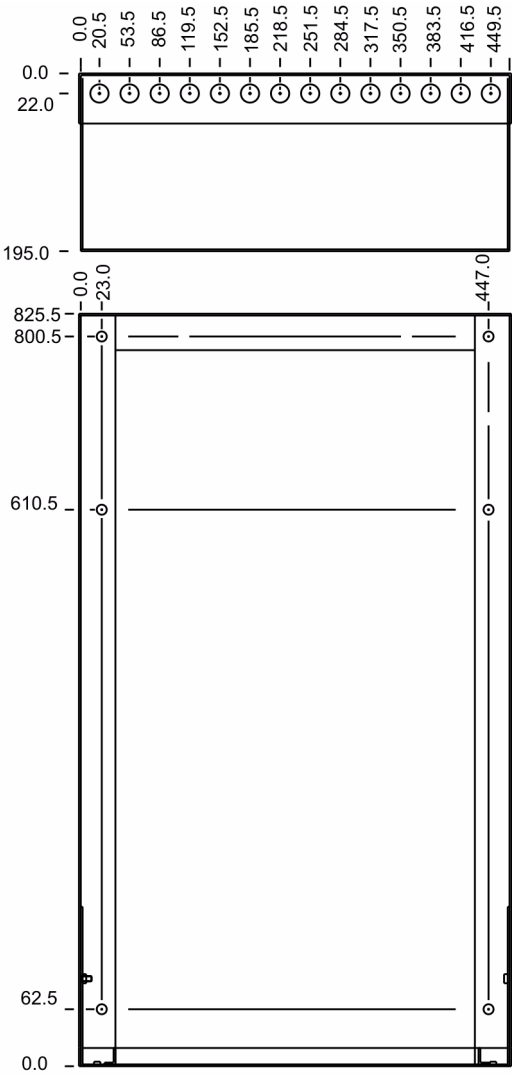
2.1 VIGIL Eclipse2 Dimensions

Table 2.1 — VIGIL Eclipse2

Height	830mm
Width	480mm
Depth	200mm
Weight	Upto 65Kg (including batteries)

2.2 Hole Centres For Mounting Holes

Figure 2.1 — Mounting Hole Centres and Cable Gland locations



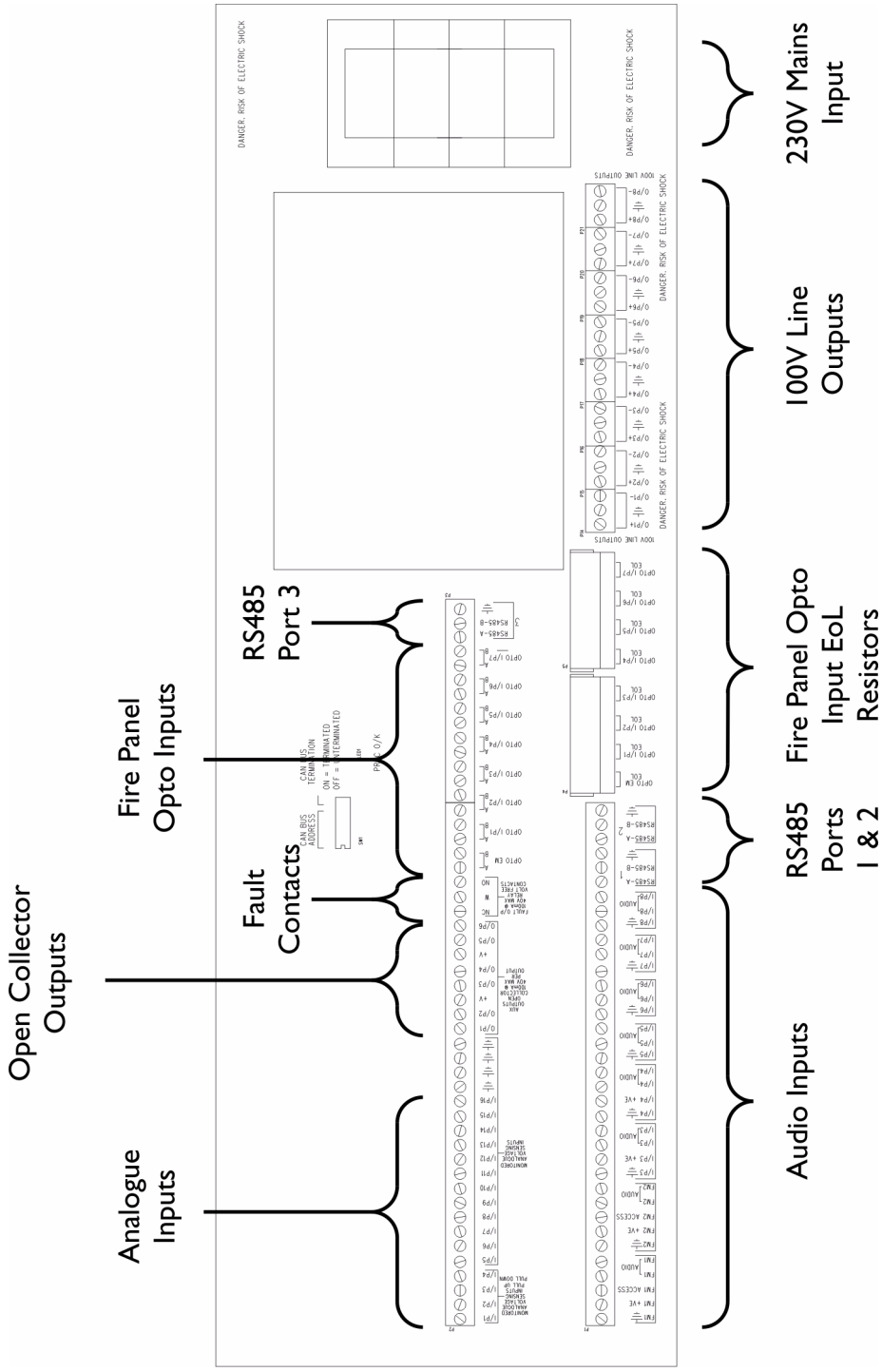
There are 6 off 8mm mounting holes which should all be used to distribute the weight of the unit.

Batteries should not be fitted until the unit is secured to the wall.

2.3 Connections to Site Wiring

Connections to the Termination PCB should be made in accordance with the System Schematic supplied.

Figure 2.2 — Termination PCB Connections



NOTE: Each unit is configured for the requirements of the installation i.e. unused inputs & outputs etc may not be connected internally.

2.3.1 Microphone(s) Installation

Connect suitable (i.e. fire resistant) cable from the microphone(s) to the termination PCB in accordance with the System Schematic supplied.

Refer to the relevant Instruction Manuals for connection details of each specific Microphone type.

NOTE: When using Fire Microphones (e.g. BFM01 / 04 etc) ensure any unused Zone Select Outputs are linked to "+VE REF" on the terminal block inside the microphone case.
This prevents incorrect fault indications.

2.3.2 Loudspeaker Line Connections

Ensure all loudspeaker connections are made according to the System Schematic supplied. Ensure suitable cable for the installation is used. This includes adequate power rating, and for VA installations the cable must be fire resistant.

When BEL1 End of Line Surveillance modules are used the Earth Return from each BEL1 must be connected to earth terminal block mounted on the chassis.

2.3.3 Fire Panel Opto-Isolated Inputs

Connect the Fire Panel sounder circuit(s) to the relevant Opto-Isolated Inputs using suitable (fire resistant) cable and ensure the polarity (A / B) is correct.

Fit correct value End Of Line resistors to the relevant Terminal Blocks.

2.3.4 Analogue Inputs, Open Collector Outputs & RS485 Ports

Ensure all Analogue Inputs, Open Collector Outputs and RS485 Port connections are made according to the System Schematic supplied.

3 Commissioning

3.1 Power Up Procedure

- Ensure the Mains Supply is isolated.
- Remove the battery fuses located on the Left Hand Side of the chassis.
- Install the batteries and connect the battery cables (including the link lead between them) but DO NOT re-fit the battery fuses.
- Connect Mains Power.
- Press the "FAULT ACCEPT" button to accept any faults that are displayed on the front panel and silence the fault buzzer.
- Carefully fit the battery fuses and replace the plastic cover over the fusebox.

3.2 System Configuration

The VIGIL Eclipse2 will have been assembled and tested in accordance with the System Schematic.

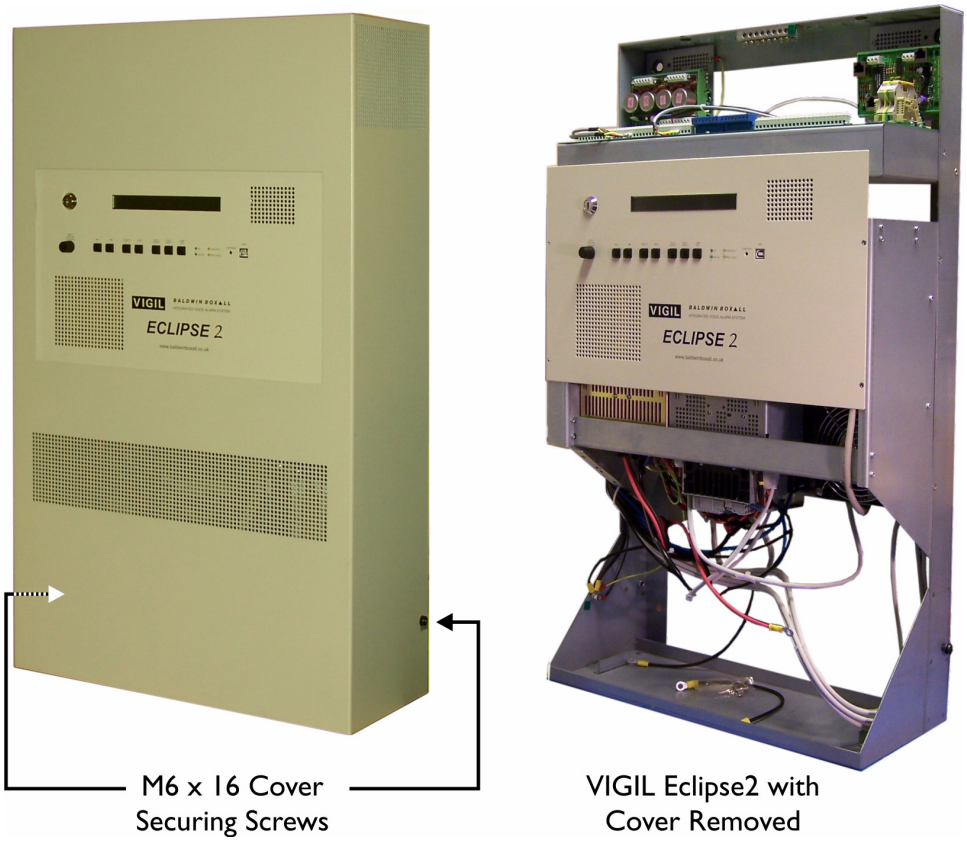
To modify the configuration or system settings refer to either the BVRD2M Manual or the "Help" in the Configuration Software.

4 Disassembly

4.1 Main Cover Removal

The main cover is secured by two M6 x 16mm screws as shown in Figure 4.1.

Figure 4.1 — Main Cover Securing Screws



To remove the cover, loosen the screws shown in Figure 4.1 and then lift the cover until the two locating pins in the top surface clear the mounting grommets.

Lift the cover clear of the chassis and store in a safe place.

WARNING

Removing the cover allows access to potentially dangerous voltages.

If Functional Testing, Maintenance, or Repair is to be completed with the Mains Power (and/or battery backup) connected then this should only be undertaken by personnel who are fully aware of the danger involved and who have taken adequate precautions and training.

4.2 BVSMP Power Supply or Amplifier Removal

Remove the main cover as described in Section 4.1.

WARNING

Ensure the Mains Power and Battery Backup are isolated before disconnecting a BVSMP Power Supply module or Amplifer module.

Access to the BVSMP Power Supply Module and the Amplifier Module(s) is achieved using a front opening "Power Tray".

Figure 4.2 — Power Tray Securing Screws

Carefully release the two securing screws to allow the Power Tray to pivot forward.

CAUTION

Hold the Power Tray in place when removing the screws as it will attempt to pivot forward when the screws are released, as shown in Figure 4.3. The Tray will pivot approx 30° to allow access.

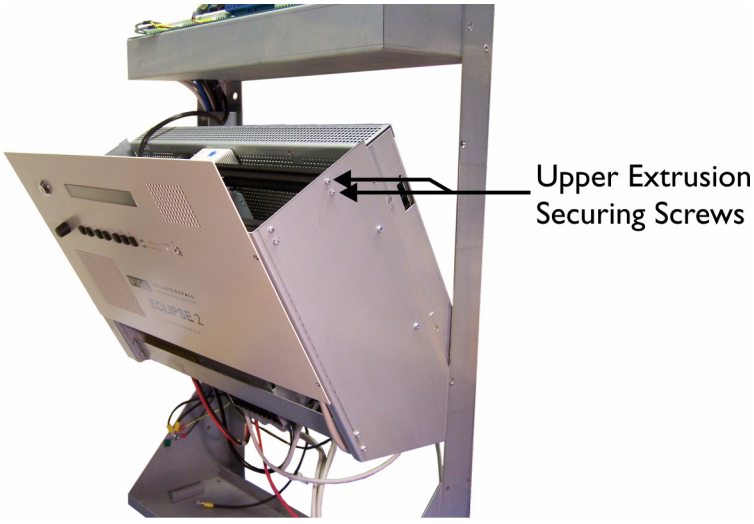
WARNING

Do not loosen or remove any other screws to access the Power Tray.

Figure 4.3 — View of Open Power Tray

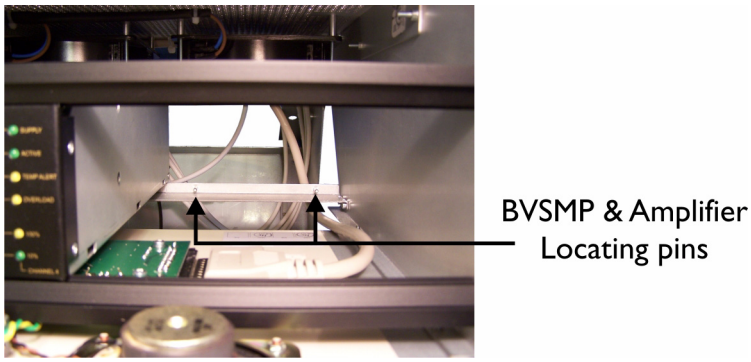
Disconnect all cables attached to the required module.
Remove the 4 off Upper Extrusion screws as shown in Figure 4.4 and detach the upper extrusion.

Figure 4.4 — Upper Extrusion Screws



Each module is held in place by two locating pins that pass through the rear panel as shown in Figure 4.5.

Figure 4.5 — Module Locating Pins



Carefully lift the module off the locating pins and remove it from the Power Tray.